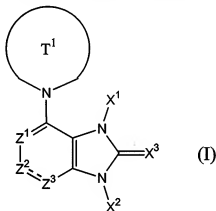


Amendment to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (Allowed) A compound represented by the formula (I), or a salt thereof,



wherein,

T¹ is a piperazin-1-yl group, a 3-amino-piperidin-1-yl group, or a 3-methylamino-piperidin-1-yl group;

X³ denotes an oxygen atom or a sulfur atom,

X¹ denotes a C₁₋₆ alkyl group which may have substituents, a C₂₋₆ alkenyl group which may have substituents, a C₂₋₆ alkynyl group which may have substituents, a C₆₋₁₀ aryl group which may have substituents, a 5 to 10-membered heteroaryl group which may have substituents, a C₆₋₁₀ aryl C₁₋₆ alkyl group which may have substituents, or a 5 to 10-membered heteroaryl C₁₋₆ alkyl group which may have substituents;

Z¹ denotes a nitrogen atom;

Z² denotes a group of the formula -CR¹;

in formula (I), the following formula



denotes a double bond;

R^1 and X^2 each independently denote a hydrogen atom, a 4 to 8-membered heterocyclic group which may have substituents, or a group represented by the formula $-A^0-A^1-A^2$;

A^0 denotes a single bond, or a C_{1-6} alkylene group that may have 1 to 3 substituents selected from the following substituent group A;

A^1 denotes a single bond, oxygen atom, sulfur atom, a sulfinyl group, a sulfonyl group, a carbonyl group, a group of the formula $-O-CO-$, a group of the formula $-CO-O-$, a group of the formula $-NR^A-$, a group of the formula $-CO-NR^A-$, a group of the formula NR^A-CO- , a group of the formula $-SO_2-NR^A-$, or a group of the formula $-NR^A-SO_2-$;

A^2 and R^A each independently denote a hydrogen atom, a cyano group, a C_{1-6} alkyl group, a C_{3-8} cycloalkyl group, a C_{2-6} alkenyl group, a C_{2-6} alkynyl group, a C_{6-10} aryl group, a 5 to 10-membered heteroaryl group, a 4 to 8-membered heterocyclic group, or a C_{6-10} aryl C_{1-6} alkyl group;

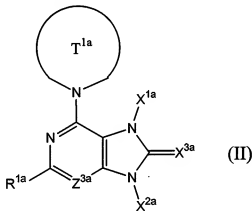
however, A^2 and R^A each independently may have 1 to 3 substituents selected from the substituent group A described below:

<Substituent group A>

substituent group A refers to a group consisting of: a hydroxyl group, a mercapto group, a cyano group, a halogen atom, a C_{1-6} alkyl group, a C_{3-8} cycloalkyl group, a C_{2-6} alkenyl group, a C_{2-6} alkynyl group, a C_{6-10} aryl group, a 5 to 10-membered heteroaryl group, a 4 to 8-membered heterocyclic group, a C_{1-6} alkoxy group, a C_{1-6} alkylthio group, a group of the formula $-NR^{B4}-R^{B5}$ (where R^{B4} and R^{B5} denote hydrogen atoms or C_{1-6} alkyl groups), a group of the formula $-CO-R^{B6}$ (where R^{B6}

denotes a 1-pyrrolidinyl group, a 1-morpholinyl group, a 1-piperazinyl group, or a 1-piperidyl group), and a group of the formula $-\text{CO}-\text{R}^{\text{B}}-\text{R}^{\text{B}2}$ (where R^{B} denotes a single bond, an oxygen atom, or a group represented by the formula $-\text{NR}^{\text{B}3}-$; $\text{R}^{\text{B}2}$ and $\text{R}^{\text{B}3}$ each independently denote a hydrogen atom, a C_{1-6} alkyl group, a C_{3-8} cycloalkyl group, a C_{2-6} alkenyl group, a C_{2-6} alkynyl group, a C_{6-10} aryl group, a 5 to 10-membered heteroaryl group, a C_{6-10} aryl C_{1-6} alkyl group, or a 5 to 10-membered heteroaryl C_{1-6} alkyl group)].

2. (Allowed) A compound represented by the formula (II), or a salt thereof,



wherein,

Z^{3a} denotes a nitrogen atom ;

X^{3a} denotes an oxygen atom or a sulfur atom;

T^{1a} is a piperazin-1-yl group, a 3-amino-piperidin-1-yl group, or a 3-methylamino-piperidin-1-yl group;

X^{1a} denotes a hydrogen atom, a C_{2-6} alkenyl group, a C_{2-6} alkynyl group, or a benzyl group;

R^{1a} denotes a hydrogen atom, a halogen atom, a C_{1-6} alkyl group, a cyano group, or a group represented by the formula $-\text{A}^{0a}-\text{A}^{1a}$;

A^{0a} denotes an oxygen atom, a sulfur atom, or a group represented by the formula $-\text{NA}^{2a}-$;

A^{1a} denotes a hydrogen atom, a C₁₋₆ alkyl group, a C₂₋₆ alkenyl group, a C₂₋₆ alkynyl group, a phenyl group, a cyanophenyl group, a carbamoylphenyl group, a benzyl group, a pyridylmethyl group, or a pyridyl group;

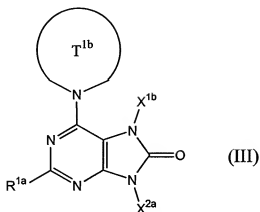
A^{2a} denotes a hydrogen atom, or a C₁₋₆ alkyl group;

X^{2a} denotes a hydrogen atom, a C₂₋₆ alkenyl group, a C₂₋₆ alkynyl group, a cyclohexenyl group, a 1H-pyridin-2-on-yl group, a 1-methyl-1H-pyridin-2-on-yl group, a C₁₋₆ alkyl group that may have a group selected from substituent group B described below, a phenyl group that may have a group selected from substituent group B described below, a 5 or 6-membered heteroaryl group that may have a group selected from substituent group B described below, a phenyl C₁₋₆ alkyl group that may have a group selected from substituent group B described below, or a pyridyl C₁₋₆ alkyl group that may have a group selected from substituent group B described below;

<Substituent group B>

substituent group B refers to a group consisting of a chlorine atom, a bromine atom, a cyano group, a C₁₋₆ alkyl group, a C₂₋₆ alkenyl group, a C₂₋₆ alkynyl group, a C₃₋₆ cycloalkyl group, a C₁₋₆ alkoxy group, a carbamoyl group, a carboxyl group, and a C₁₋₆ alkoxycarbonyl group].

3. (Allowed) A compound represented by the formula (III), or a salt thereof,



wherein,

T^{1b} stands for a piperazin-1-yl group, a 3-amino-piperidin-1-yl group, or a 3-methylamino-piperidin-1-yl group;

X^{1b} denotes a 2-pentynyl group, a 2-butylnyl group, a 3-methyl-2-butenyl group, a 2-butenyl group, or a benzyl group; and

R^{1a} and X^{2a} have the same meaning as R^{1a} and X^{2a} of claim 2 defined above].

4. (Allowed) The compound of claim 2 or 3, or a salt thereof, wherein R^{1a} is a hydrogen atom, a chlorine atom, a cyano group, a methoxy group, an ethoxy group, an i-propyloxy group, a methylthio group, an allyloxy group, a 2-butyloxy group, a phenyloxy group, a cyanophenyloxy group, a carbamoylphenyloxy group, a phenylmethyloxy group, a (phenylmethyl)amino group, a pyridylmethyloxy group, a pyridyloxy group, an amino group, a methylamino group, a dimethylamino group, or a diethylamino group.

5. (Allowed) The compound of claim 2 or 3, or a salt thereof, wherein R^{1a} is a hydrogen atom, a methoxy group, an ethoxy group, an i-propyloxy group, a 2-cyanophenyloxy group, or a 2-carbamoylphenyloxy group.

6. (Allowed) The compound of claim 2 or 3, or a salt thereof, wherein X^{2a} is a hydrogen atom, a methyl group, an ethyl group, an n-propyl group, a 2-methylpropyl group, a group represented by the formula -CH₂-R¹⁰ (where R¹⁰ denotes a carbamoyl group, a carboxyl group, a methoxycarbonyl group, a cyano group, a cyclopropyl group, or a methoxy group), a 3-cyanopropyl group, an allyl group, a 2-propionyl group, a 2-butylnyl group, a 2-methyl-2-propenyl

group, a 2-cyclohexynyl group, a chloropyridyl group, a methoxypyridyl group, a methoxypyrimidyl group, a pyridyl group, a furyl group, a thienyl group, a pyridylmethyl group, a 1H-pyridin-2-on-5-yl group, a 1-methyl-1H-pyridin-2-on-5-yl group, a phenyl group that may have a group selected from substituent group Y described below, a benzyl group that may have a group selected from substituent group Y described below, or a phenethyl group that may have a group selected from substituent group Y described below:

substituent group Y is a group consisting of: a chlorine atom, a bromine atom, a methoxy group, a cyano group, a vinyl group, and a methyl group.

7. (Currently Amended) The compound of claim 2 or 3, or a salt thereof, wherein X^{2a} is a methyl group, n-propyl group, allyl group, 2-propynyl group, 2-butylnyl group, cyclopropylmethyl group, phenyl group, 3-pyridyl group, 3-furyl group, 3-thienyl group, 2-methoxy-5-pyrimidinyl group, 2-methoxy-5-pyridyl group, 2-chloro-4-pyridyl group, or 1H-pyridin-2-on-5-yl group.

10. (Allowed) A pharmaceutical composition comprising the compound of claim 1, or a salt thereof, and an adjuvant for formulation.